antenna conceptor

Product Datasheet

2JP0104P

CELLULAR Rigid Fiberglass

Key Features

CELLULAR
- 824-960 MHz
- 1710-2170 MHz

Embedded Antenna
Self-Adhesive
High Performance
Ground Plane Independent
Dimensions 75 x 25 x 0.8 mm
Customizable Cable and Connector



1. Antenna and electrical specifications

Parameters	CELLULAR Antenna	
Standards	2G and 3G	
Band (MHz)	850/900	1700/1800/1900/2100
Frequency (MHz)	824-960	1710-2170
Return Loss (dB)	<=-10	<=-7
VSWR	<=2:1	<=2.6:1
Efficiency (%)	~45	~60
Peak Gain (dBi)	~0.5	~3
Average Gain (dB)	~-3.4	~-2.2
Impendance (Ohm)	50	
Polarisation	Linear	
Radiation Pattern	Omni-Directional	
Max. Input Power (W)	25	
Connector Type	Most RF Connectors (U.FL Standard)	
Cable Length	Any Cable Length (100mm Standard)	
Cable Type	Other Cables Available (1.37mm Standard)	

Antenna Measurement Conditions:

Mounted on 30 x 30 x 0.25 cm ABS Plate

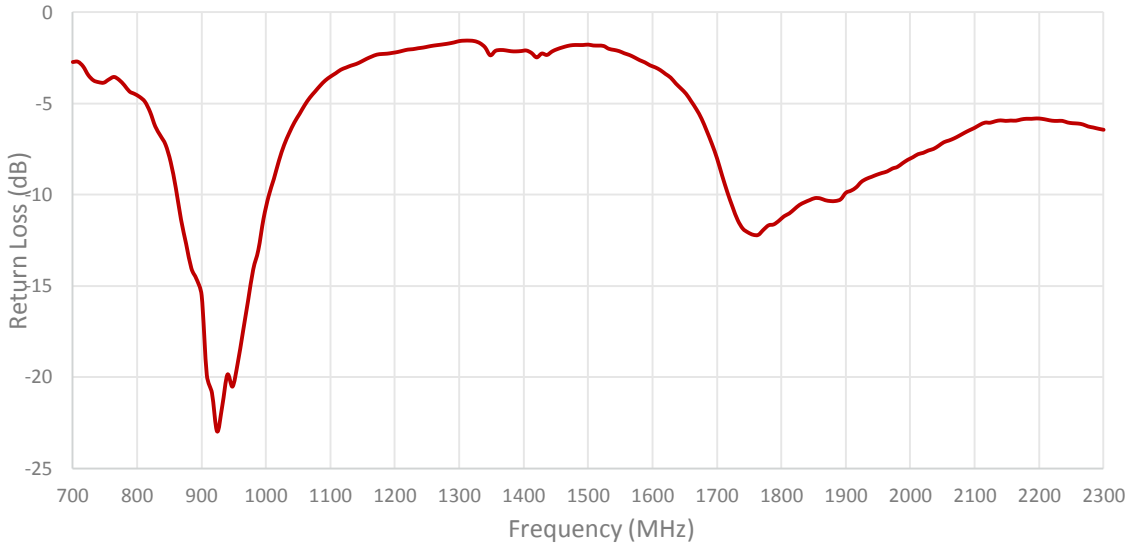
100 mm 1.37 mm Cable

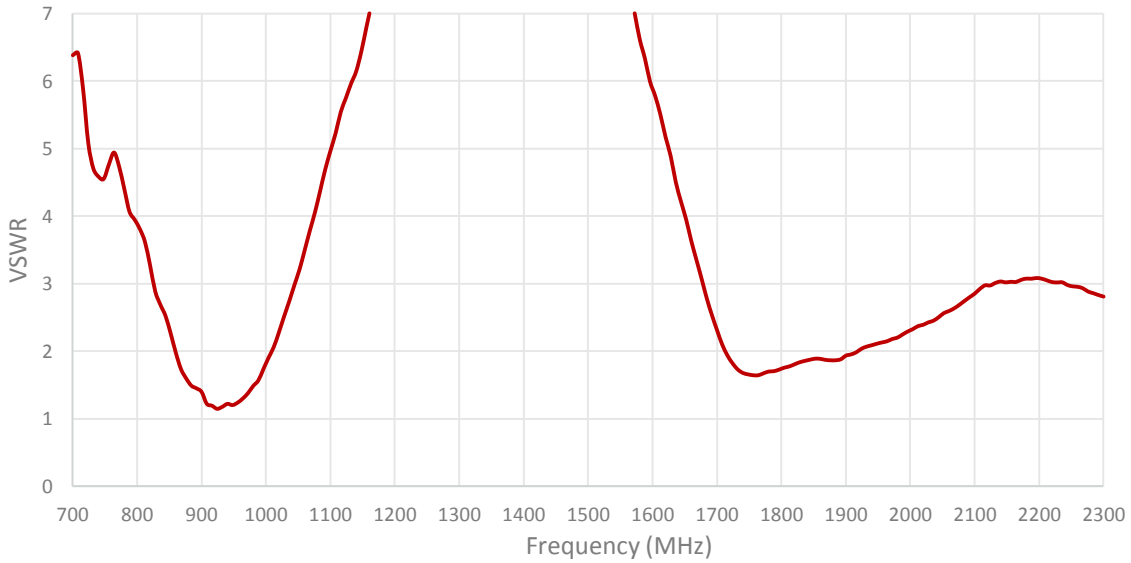
Measured in Certified CTIA 3D Anechoic Chamber

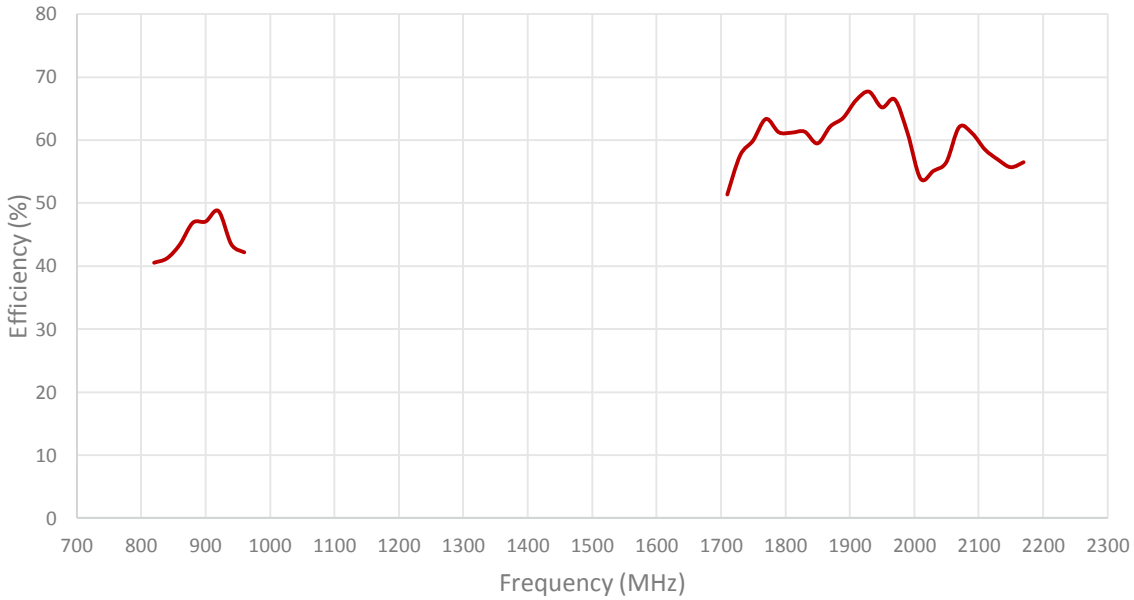
2. Mechanical and environmental specifications

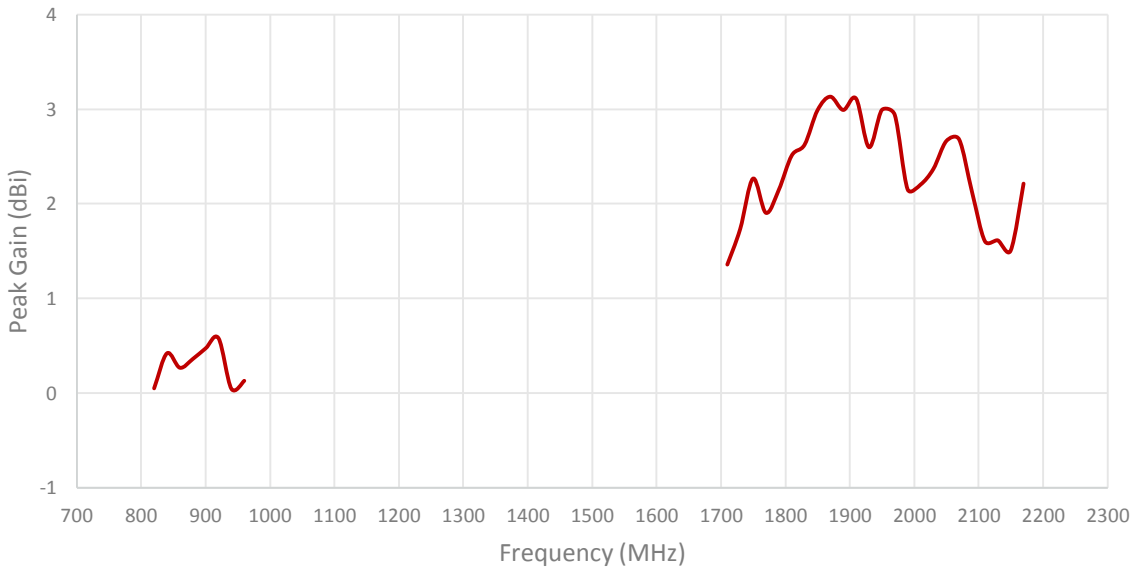
Specifications	2JP0104P
Mounting Type	Self-Adhesive
Dimensions (mm)	75 x 25 x 0.8 mm
Adhesive Type	3M 467
Material	Rigid Fiberglass
Operating Temperature (C)	-40 to +85
Storage Temperature (C)	-40 to +85
Substance Compliance	RoHS

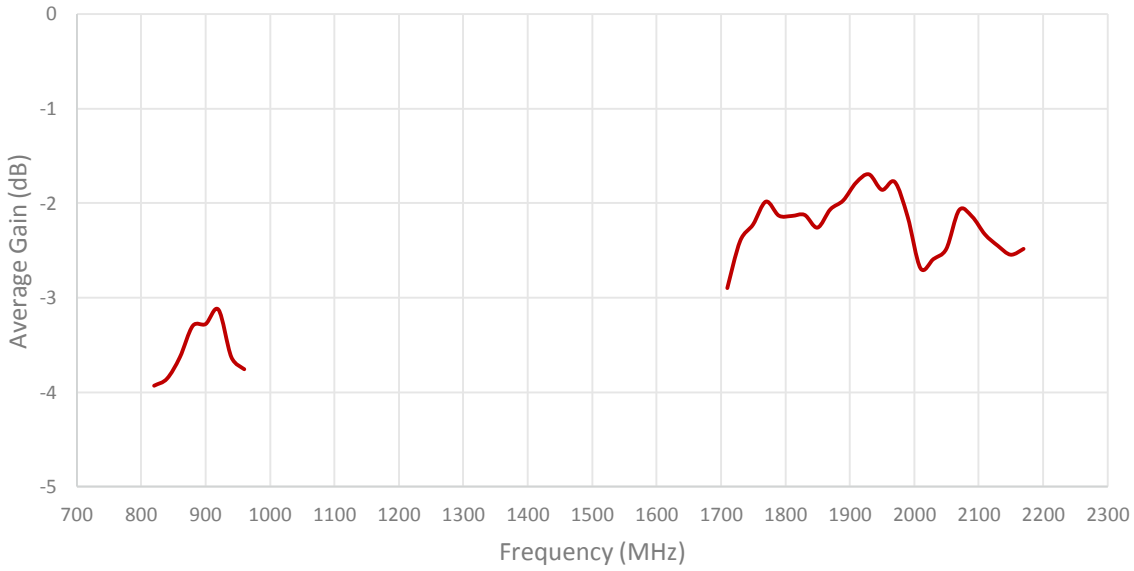
3. Antenna parameters

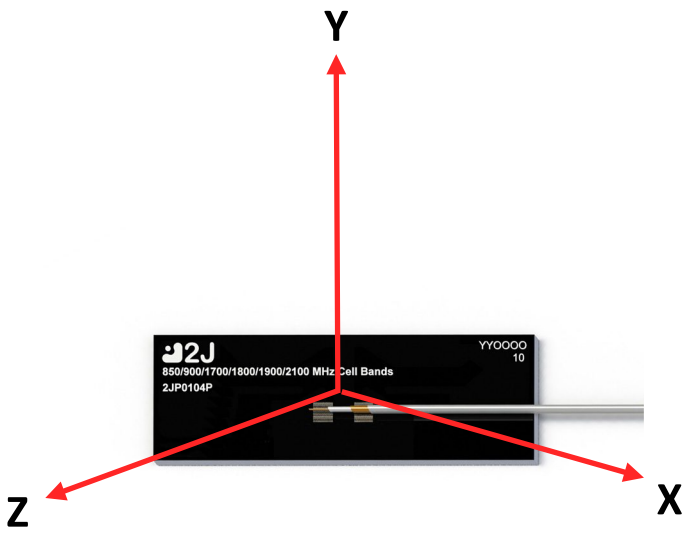




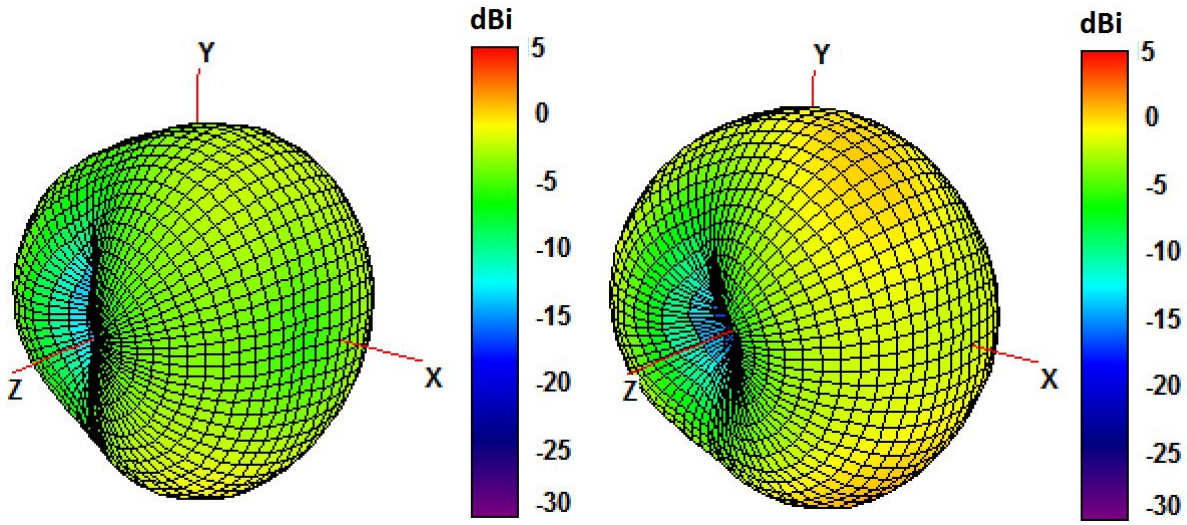

80
70
60
50
40
30
20
10
0
Efficiency (%)
700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300
Frequency (MHz)


4
3
2
1
0
-1
Peak Gain (dBi)
700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300
Frequency (MHz)

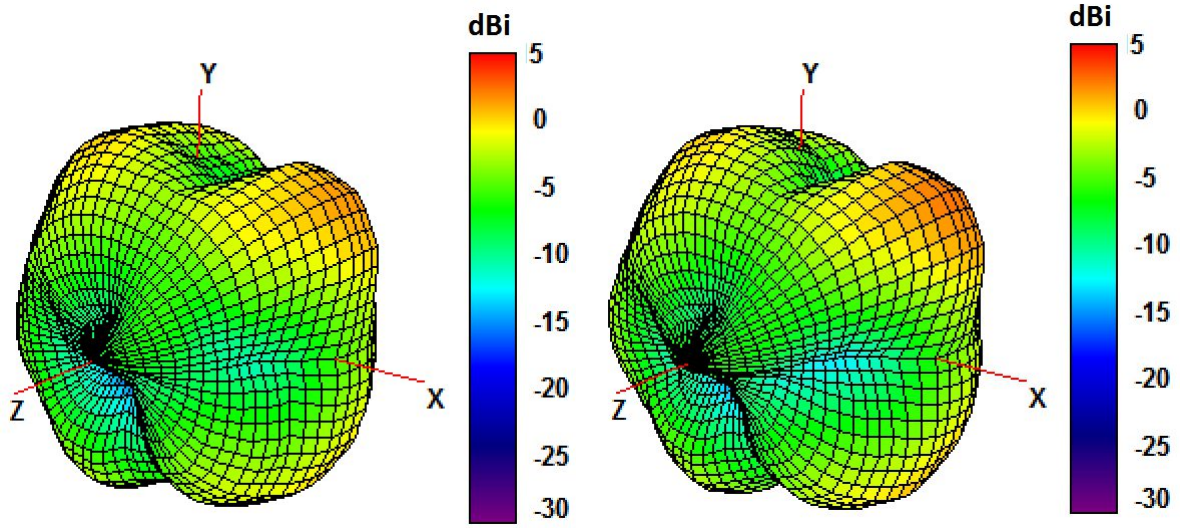




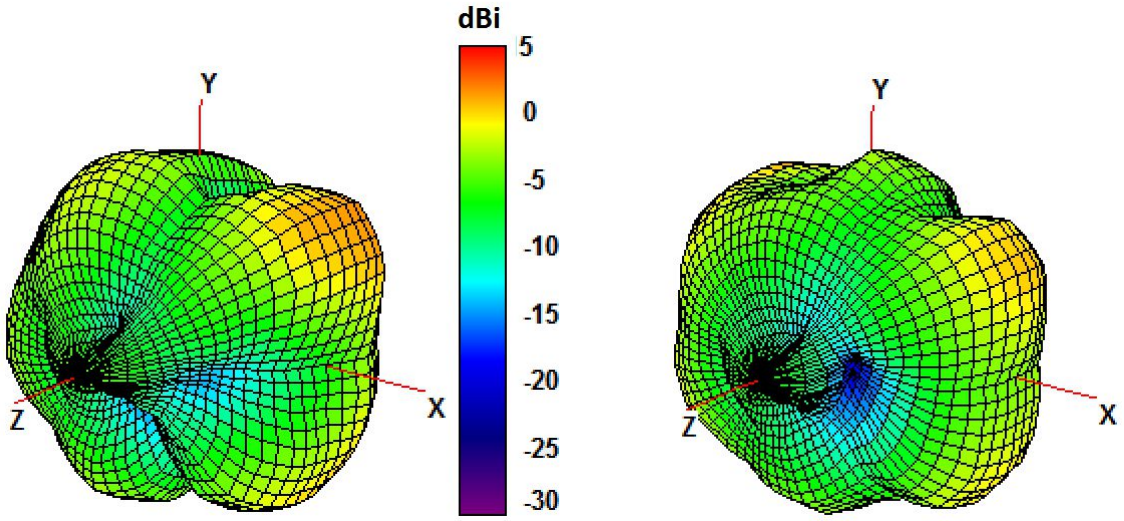
Radiation pattern reference



850 and 940 MHz Radiation pattern

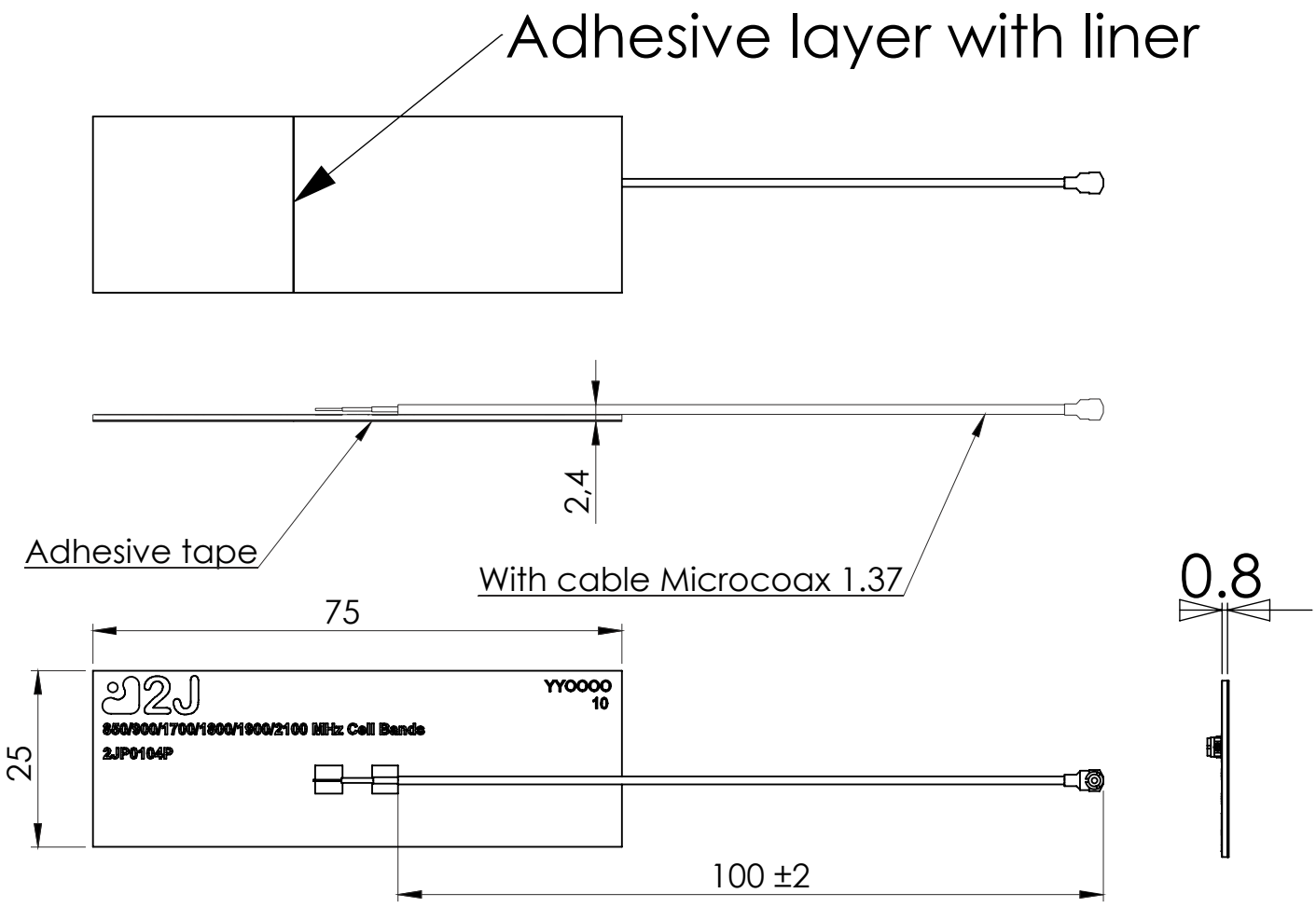


1750 and 1850 MHz Radiation pattern



1950 and 2100 MHz Radiation pattern

4. Antenna drawings



5. Antenna Images

